

Serial No. 09/932,553  
Reply to Office Action of August 24, 2005

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (previously presented) A communication adapter system for connecting a client to a network, the system comprising:
  - a server having a memory electrically connected to the client;
  - a primary Input/Output (I/O) board electrically connected to the server and having a primary network interface card (NIC), the primary NIC having a primary I/O port for connecting to the network, the primary NIC selectively enabling active transfer of data from the client to the network through the primary I/O port;
  - a secondary I/O board electrically connected to the server and having a secondary NIC, the secondary NIC having a secondary I/O port for connecting to the network, the secondary NIC selectively enabling active transfer of data from the client to the network through the secondary I/O port;
  - a primary switch electrically connected to the primary I/O port and the network;
  - a secondary switch electrically connected to the secondary I/O port and the network; and
  - program signals stored in the memory of the server and defining an executable program for:
    - generating a connectivity signal to the primary switch to test connectivity from the primary I/O board to the primary switch;
    - monitoring the primary I/O port to detect a response signal from the primary switch within a predetermined time period after the generation of the connectivity signal;
    - configuring the primary NIC to disable active transfer of data if

Serial No. 09/932,553

Reply to Office Action of August 24, 2005

the response signal is not detected within the time period; and  
configuring the secondary NIC to enable the active transfer of data if  
the response signal is not detected within the time period.

2. (previously presented) The system of Claim 1 wherein the network is a Fiber Distributed Data Interface (FDDI) network.
3. (original) The system of Claim 1 wherein the program comprises generating a connectivity signal to a remote device on the network to test connectivity from the primary I/O board through the primary switch and to the remote device.
4. (original) The system of Claim 1 wherein the connectivity signal is a ping signal.
5. (original) The system of Claim 1 wherein the program comprises transferring network information from the primary NIC to the secondary NIC.
6. (previously presented) The system of Claim 5 wherein the network information includes one of an Internet Protocol (IP) address, a netmask, a broadcast, and a logical IP address.
7. (original) The system of Claim 1 wherein the program comprises notifying a systems administrator of a failure.
8. (previously presented) A method for detecting failures in a communication adapter system for connecting a client to a network, the method comprising:  
generating a connectivity signal from a primary Input/Output (I/O) board of the system to a primary switch of the system to test connectivity at least from the primary I/O board to the primary switch;  
monitoring a primary I/O port of the primary I/O board to detect a response signal within a predetermined time period after the generation of the connectivity

Serial No. 09/932,553

Reply to Office Action of August 24, 2005

signal;

configuring a primary Network Interface Card (NIC) of the primary I/O board to disable active transfer of data from the client to the network through the primary I/O port if the response signal is not detected within the time period; and

configuring a secondary NIC of a secondary I/O board of the system to enable the active transfer of data from the client to the network through a secondary I/O port of the secondary I/O board if the response signal is not detected within the time period.

9. (previously presented) The method of Claim 8 wherein the network is a Fiber Distributed Data Interface (FDDI) network.
10. (original) The method of Claim 8 wherein generating includes generating a connectivity signal to a remote device on the network to test connectivity from the primary I/O board through the primary switch and to the remote device.
11. (original) The method of Claim 8 wherein generating includes generating a ping signal.
12. (original) The method of Claim 8 comprising transferring network information from the primary NIC to the secondary NIC.
13. (previously presented) The method of Claim 12 wherein transferring includes transferring one of an Internet Protocol (IP) address, a netmask, a broadcast, and a logical IP address.
14. (original) The method of Claim 8 comprising notifying a systems administrator of failure.

Serial No. 09/932,553

Reply to Office Action of August 24, 2005

15. (currently amended) A communication adapter system for connecting a client to a network, the system comprising:

a host connected to the client;

a primary Input/Output (I/O) board connected to the host and having a primary network interface card (NIC), the primary NIC having a primary I/O port for connecting to the network, the primary NIC selectively enabling active transfer of data from the client to the network through the primary I/O port;

a secondary I/O board connected to the server and having a secondary NIC, the secondary NIC having a secondary I/O port for connecting to the network, the secondary NIC selectively enabling active transfer of data from the client to the network through the secondary I/O port;

a primary switch electrically connected to the primary I/O port and the network;

a secondary switch electrically connected to the secondary I/O port and the network; and

an adapter mechanism ~~on the server~~ operating as follows:

generating a connectivity signal to the primary ~~I/O~~ switch to test connectivity from the primary I/O board to the primary switch;

monitoring the primary I/O port to detect a response signal from the primary switch within a predetermined time period after the generation of the connectivity signal;

configuring the primary NIC to disable active transfer of data if the response signal is not detected within the time period; and

configuring the secondary NIC to enable the active transfer of data if the response signal is not detected within the time period, the configuring including transferring network information from the primary NIC to the secondary NIC, wherein the network information comprises IP addresses of other devices connected to the network, netmasks, or broadcasts.